

(Important: Type or print; read instructions before completing form.)

U.S. Environmental Protection Agency  
TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

EPA FORM

R

Section 313, Title III of The Superfund Amendments and Reauthorization Act of 1986

## PART I. FACILITY IDENTIFICATION INFORMATION

(This space for EPA use only.)

1. 1.1 Does this report contain trade secret information?  
☐ Yes (Answer 1.2) ☒ No (Do not answer 1.2)
- 1.2 Is this a sanitized copy?  
☐ Yes ☐ No
- 1.3 Reporting Year  
 1987

## 2. CERTIFICATION (Read and sign after completing all sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official

William Rosen

Signature

Date signed

## 3. FACILITY IDENTIFICATION

3.1	Facility or Establishment Name ALASKAN COPPER WORKS		3.2	This report contains information for: (check one)	
	Street Address 3200 6 <sup>TH</sup> AVE. So.			a. <input type="checkbox"/> An entire covered facility.	
	City SEATTLE	County KING		b. <input type="checkbox"/> Part of a covered facility.	
	State WA	Zip Code 98113-1111			
3.3	Technical Contact James C. BROWN			Telephone Number (Include area code) (206) 623-5800	
3.4	Public Contact SAME AS 3.3			Telephone Number (Include area code) ( ) -	
3.5	a. SIC Code 341918	b.	c.	Where to send completed forms:  U.S. Environmental Protection Agency P.O. Box 70266 Washington, DC 20024-0266 Attn: Toxic Chemical Release Inventory	
3.6	Latitude Deg. Min. Sec. 47 13 31.0 Longitude Deg. Min. Sec. 122 18 31.0				
3.7	Dun & Bradstreet Number(s) a. 0101-1912151-1515711 b.				
3.8	EPA Identification Number (RCRA I.D. No.) a. WA1D1918101713151716 b.				
3.9	NPDES Permit Number(s) a. NA b.				
3.10	Name of Receiving Stream(s) or Water Body(s) a.				
	b.				
	c.				
3.11	Underground Injection Well Code (UIC) Identification No. 				

## 4. PARENT COMPANY INFORMATION

4.1	Name of Parent Company ALASKAN COPPER <del>WORKS</del> CO.S INC.
4.2	Parent Company's Dun & Bradstreet No. 0101-1912151-1515711

Page 2 of 5

**EPA FORM R**  
**PART II. OFF-SITE LOCATIONS TO WHICH TOXIC**  
**CHEMICALS ARE TRANSFERRED IN WASTES**

Facility Name METRO	
Street Address 322 West EWING	
City Seattle	County King
State WA	Zip 98111-6111

1 Other off-site location

EPA Identification Number (RCRA ID. No.) W1A1D10158131671152

Facility Name North West ENVIRONMENTAL SYSTEMS INC.	
Street Address 1500 AIRPORT WAY SOUTH	
City Seattle	County King
State WA	Zip 981134111

Is location under control of reporting facility or parent company? ☐ Yes ☒ No

☐ Other off-site location

EPA Identification Number (RCRA ID. No.)

Facility Name	
Street Address	
City	County
State	Zip

Is location under control of reporting facility or parent company? ☐ Yes ☐ No

☐ Other off-site location

EPA Identification Number (RCRA ID. No.)

Facility Name	
Street Address	
City	County
State	Zip

Is location under control of reporting facility or parent company? ☐ Yes ☐ No

☐ Check if additional pages of Part II are attached.

(This space for EPA use only.)

# EPA FORM **R** PART III. CHEMICAL SPECIFIC INFORMATION

## 1. CHEMICAL IDENTITY

1.1	<input type="checkbox"/> Trade Secret (Provide a generic name in 1.4 below. Attach substantiation)
1.2	CAS # <b>007440-47-3</b> (Use leading zeros if CAS numb
1.3	Chemical or Chemical Category Name <b>Chromium</b>
1.4	Generic Chemical Name (Complete only if 1.1 is checked.)

*Copper 1 million*  
*Chromium 205*  
*Magnesium 305*  
*Nickel 05* **405**

## MIXTURE COMPONENT IDENTITY (Do not complete this section if you have completed Section 1.)

2. Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e.g., numbers, letters, spaces, punctuation)).


## 3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1	Manufacture:	a. <input type="checkbox"/> Produce	b. <input checked="" type="checkbox"/> Import	c. <input type="checkbox"/> For on-site use/processing
		d. <input type="checkbox"/> For sale/distribution	e. <input type="checkbox"/> As a byproduct	f. <input type="checkbox"/> As an impurity
3.2	Process:	a. <input type="checkbox"/> As a reactant	b. <input type="checkbox"/> As a formulation component	c. <input type="checkbox"/> As an article component
		d. <input checked="" type="checkbox"/> Repackaging only		
3.3	Otherwise Used:	a. <input type="checkbox"/> As a chemical processing aid	b. <input type="checkbox"/> As a manufacturing aid	c. <input type="checkbox"/> Ancillary or other use

## 4. MAXIMUM AMOUNT OF THE CHEMICAL ON SITE AT ANY TIME DURING THE CALENDAR YEAR

**05** (enter code)

## 5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT

You may report releases of less than 1,000 lbs. by checking ranges under A.1.		A. Total Release (lbs/yr)			B. Basis of Estimate (enter code)			
		A.1 Reporting Ranges						
		0	1-499	500-999	A.2 Enter Estimate			
5.1 Fugitive or non-point air emissions	5.1a		<input checked="" type="checkbox"/>			5.1b <input checked="" type="checkbox"/>		
5.2 Stack or point air emissions	5.2a	<input checked="" type="checkbox"/>				5.2b <input checked="" type="checkbox"/>		
5.3 Discharges to water (Enter letter code from Part I Section 3.10 for streams(s).)	5.3.1 <input checked="" type="checkbox"/> NA	5.3.1a				5.3.1b <input type="checkbox"/>		C. % From Stormwater 5.3.1c <b>NA</b>
	5.3.2 <input checked="" type="checkbox"/> NA	5.3.2a				5.3.2b <input type="checkbox"/>		5.3.2c <b>NA</b>
	5.3.3 <input checked="" type="checkbox"/> NA	5.3.3a				5.3.3b <input type="checkbox"/>	5.3.3c <b>NA</b>	
5.4 Underground injection	5.4a	<input checked="" type="checkbox"/>				5.4b <input checked="" type="checkbox"/>		
5.5 Releases to land	5.5.1 <b>002</b> (enter code)	5.5.1a		<input checked="" type="checkbox"/>		5.5.1b <input checked="" type="checkbox"/>		
	5.5.2 <input type="checkbox"/> (enter code)	5.5.2a				5.5.2b <input type="checkbox"/>		
	5.5.3 <input type="checkbox"/> (enter code)	5.5.3a				5.5.3b <input type="checkbox"/>		

☐ (Check if additional information is provided on Part IV-Supplemental Information.)

(This space for EPA use only.)

# EPA FORM R

## PART III. CHEMICAL SPECIFIC INFORMATION

**1. CHEMICAL IDENTITY**

- 1.1 ☐ Trade Secret (Provide a generic name in 1.4 below. Attach substantiation form to this submission.)
- 1.2 CAS # **007440-47-3** (Use leading zeros if CAS number does not fill space provided.)
- 1.3 Chemical or Chemical Category Name  
**Chromium**
- 1.4 Generic Chemical Name (Complete only if 1.1 is checked.)

**2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you have completed Section 1.)**

2. Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e.g., numbers, letters, spaces, punctuation)).

**3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)**

- 3.1 **Manufacture:** a. ☐ Produce b. ☒ Import c. ☐ For on-site use/processing  
d. ☐ For sale/distribution e. ☐ As a byproduct f. ☐ As an impurity
- 3.2 **Process:** a. ☐ As a reactant b. ☐ As a formulation component c. ☐ As an article component  
d. ☒ Repackaging only
- 3.3 **Otherwise Used:** a. ☐ As a chemical processing aid b. ☐ As a manufacturing aid c. ☐ Ancillary or other use

**4. MAXIMUM AMOUNT OF THE CHEMICAL ON SITE AT ANY TIME DURING THE CALENDAR YEAR****05** (enter code)**5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT**

You may report releases of less than 1,000 lbs. by checking ranges under A.1.		A. Total Release (lbs/yr)			B. Basis of Estimate (enter code)	
		A.1 Reporting Ranges				
		0	1-499	500-999		
5.1 Fugitive or non-point air emissions	5.1a		<input checked="" type="checkbox"/>		5.1b <input type="checkbox"/>	
5.2 Stack or point air emissions	5.2a	<input checked="" type="checkbox"/>			5.2b <input type="checkbox"/>	
5.3 Discharges to water (Enter letter code from Part I Section 3.10 for streams(s).)	5.3.1 <input checked="" type="checkbox"/> NA	5.3.1a			5.3.1b <input type="checkbox"/>	C. % From Stormwater 5.3.1c <b>N/A</b>
	5.3.2 <input checked="" type="checkbox"/> NA	5.3.2a			5.3.2b <input type="checkbox"/>	5.3.2c <b>N/A</b>
	5.3.3 <input checked="" type="checkbox"/> NA	5.3.3a			5.3.3b <input type="checkbox"/>	5.3.3c <b>N/A</b>
5.4 Underground injection	5.4a	<input checked="" type="checkbox"/>			5.4b <input type="checkbox"/>	
5.5 Releases to land	5.5.1 <b>D02</b> (enter code)	5.5.1a	<input checked="" type="checkbox"/>		5.5.1b <input type="checkbox"/>	
	5.5.2 <input type="checkbox"/> <input type="checkbox"/> (enter code)	5.5.2a			5.5.2b <input type="checkbox"/>	
	5.5.3 <input type="checkbox"/> <input type="checkbox"/> (enter code)	5.5.3a			5.5.3b <input type="checkbox"/>	

☐ (Check if additional information is provided on Part IV-Supplemental Information.)

**EPA FORM R****PART IV. SUPPLEMENTAL INFORMATION**

Use this section if you need additional space for answers to questions in Parts I and III. Number or letter this information sequentially from prior sections (e.g., D.E. F, or 5.54, 5.55).

(This space for EPA use only.)

**ADDITIONAL INFORMATION ON FACILITY IDENTIFICATION (Part I - Section 3)**

3.5	SIC Code	3498							
3.7	Dun & Bradstreet Number(s)	001-925-5571							
3.8	EPA Identification Number(s) RCRA I.D. No.)	WAID98071381544							
3.9	NPDES Permit Number(s)								
3.10	Name of Receiving Stream(s) or Water Body(s)								

4 Ga

**ADDITIONAL INFORMATION ON RELEASES TO LAND (**

Releases to Land		A. Reporting Ranges			A.2 Enter Estimate	B. Basis of Estimate (enter code)
		0	1-499	500-999		
5.5	002 (enter code)	5.5 a	X			5.5 b 0
5.5		5.5 a				5.5 b
5.5		5.5 a				5.5 b

**ADDITIONAL INFORMATION ON OFF-SITE TRANSFER ( Part III - Section 6)**

		A. Total Transfers (lbs/yr)			B. Basis of Estimate (enter code)	C. Type of Treatment/ Disposal (enter code)
		A.1 Reporting Ranges		A.2 Enter Estimate		
		0	1-499	500-999		
6.	Discharge to POTW	6. a	X		6. b 0	
6.	Other off-site location (Enter block number from Part II, Section 2.) 1	6. a	X		6. b 0	6. c. M72
6.	Other off-site location (Enter block number from Part II, Section 2.)	6. a			6. b	6. c.

**ADDITIONAL INFORMATION ON WASTE TREATMENT (Part III - Section 7)**

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes No
7. a W	7. b M61	7. c 3	7. d X	7. e 0 %	7. f <input type="checkbox"/> <input checked="" type="checkbox"/>
7. a	7. b	7. c	7. d	7. e %	7. f <input type="checkbox"/> <input type="checkbox"/>
7. a	7. b	7. c	7. d	7. e %	7. f <input type="checkbox"/> <input type="checkbox"/>
7. a	7. b	7. c	7. d	7. e %	7. f <input type="checkbox"/> <input type="checkbox"/>
7. a	7. b	7. c	7. d	7. e %	7. f <input type="checkbox"/> <input type="checkbox"/>

EPA FORM **R**

## PART IV. SUPPLEMENTAL INFORMATION

Use this section if you need additional space for answers to questions in Parts I and III. Number or letter this information sequentially from prior sections (e.g., D,E, F, or 5.54, 5.55).

(This space for EPA use only.)

## ADDITIONAL INFORMATION ON FACILITY IDENTIFICATION (Part I - Section 3)

3.5	SIC Code	3498			
3.7	Dun & Bradstreet Number(s)	001-925-155711			
3.8	EPA Identification Number(s) RCRA I.D. No.)	W1A1D1918017131815144			
3.9	NPDES Permit Number(s)				
3.10	Name of Receiving Stream(s) or Water Body(s)				

## ADDITIONAL INFORMATION ON RELEASES TO LAND (Part III - Section 5.5)

Releases to Land	A. Total Release (lbs/yr)	B. Basis of Estimate (enter code)	
		A.1 Reporting Ranges (0 1-499 500-999)	A.2 Enter Estimate
5.5 <input type="checkbox"/> 002 (enter code)	5.5 a <input checked="" type="checkbox"/> X	5.5 b <input type="checkbox"/> 0	
5.5 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> (enter code)	5.5 a <input type="checkbox"/>	5.5 b <input type="checkbox"/>	
5.5 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> (enter code)	5.5 a <input type="checkbox"/>	5.5 b <input type="checkbox"/>	

## ADDITIONAL INFORMATION ON OFF-SITE TRANSFER (Part III - Section 6)

	A. Total Transfers (lbs/yr)	B. Basis of Estimate (enter code)	C. Type of Treatment/ Disposal (enter code)
6. Discharge to POTW	6. a <input checked="" type="checkbox"/> X	6. b <input type="checkbox"/> 0	
6. Other off-site location (Enter block number from Part II, Section 2.) <input type="checkbox"/> 1	6. a <input checked="" type="checkbox"/> X	6. b <input type="checkbox"/> 0	6. c. <input type="checkbox"/> M72
6. Other off-site location (Enter block number from Part II, Section 2.) <input type="checkbox"/>	6. a <input type="checkbox"/>	6. b <input type="checkbox"/>	6. c. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

## ADDITIONAL INFORMATION ON WASTE TREATMENT (Part III - Section 7)

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes No
7. a <input type="checkbox"/> W	7. b <input type="checkbox"/> M61	7. c <input type="checkbox"/> 3	7. d <input checked="" type="checkbox"/> X	7. e <input type="checkbox"/> 0 %	7. f <input type="checkbox"/> <input checked="" type="checkbox"/> X
7. a <input type="checkbox"/>	7. b <input type="checkbox"/>	7. c <input type="checkbox"/>	7. d <input type="checkbox"/>	7. e %	7. f <input type="checkbox"/> <input type="checkbox"/>
7. a <input type="checkbox"/>	7. b <input type="checkbox"/>	7. c <input type="checkbox"/>	7. d <input type="checkbox"/>	7. e %	7. f <input type="checkbox"/> <input type="checkbox"/>
7. a <input type="checkbox"/>	7. b <input type="checkbox"/>	7. c <input type="checkbox"/>	7. d <input type="checkbox"/>	7. e %	7. f <input type="checkbox"/> <input type="checkbox"/>
7. a <input type="checkbox"/>	7. b <input type="checkbox"/>	7. c <input type="checkbox"/>	7. d <input type="checkbox"/>	7. e %	7. f <input type="checkbox"/> <input type="checkbox"/>

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS						
You may report transfers of less than 1,000 lbs. by checking ranges under A.1.		A. Total Transfers (lbs/yr)			B. Basis of Estimate (enter code)	C. Type of Treatment/Disposal (enter code)
		A.1 Reporting Ranges		A.2 Enter Estimate		
		0	1-499	500-999		
6.1	Discharge to POTW		X		6.1b	<input type="radio"/>
6.2	Other off-site location (Enter block number from Part II, Section 2.) <input type="checkbox"/> 1		X		6.2b	<input type="radio"/> 0
6.3	Other off-site location (Enter block number from Part II, Section 2.) <input type="checkbox"/>				6.3b	<input type="checkbox"/>
6.4	Other off-site location (Enter block number from Part II, Section 2.) <input type="checkbox"/>				6.4b	<input type="checkbox"/>
						6.2c
						6.3c
						6.4c

☐ (Check if additional information is provided on Part IV-Supplemental Information)

7. WASTE TREATMENT METHODS AND EFFICIENCY							
A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?		
					Yes	No	
7.1a	<del>1</del>	7.1b	<del>1</del>	7.1c	<input type="checkbox"/> 3	7.1d	<input checked="" type="checkbox"/>
7.2a	<input checked="" type="checkbox"/> 1	7.2b	<input type="checkbox"/> 1	7.2c	<input type="checkbox"/>	7.2d	<input type="checkbox"/>
7.3a	<input type="checkbox"/>	7.3b	<input type="checkbox"/>	7.3c	<input type="checkbox"/>	7.3d	<input type="checkbox"/>
7.4a	<input type="checkbox"/>	7.4b	<input type="checkbox"/>	7.4c	<input type="checkbox"/>	7.4d	<input type="checkbox"/>
7.5a	<input type="checkbox"/>	7.5b	<input type="checkbox"/>	7.5c	<input type="checkbox"/>	7.5d	<input type="checkbox"/>
7.6a	<input type="checkbox"/>	7.6b	<input type="checkbox"/>	7.6c	<input type="checkbox"/>	7.6d	<input type="checkbox"/>
7.7a	<input type="checkbox"/>	7.7b	<input type="checkbox"/>	7.7c	<input type="checkbox"/>	7.7d	<input type="checkbox"/>
7.8a	<input type="checkbox"/>	7.8b	<input type="checkbox"/>	7.8c	<input type="checkbox"/>	7.8d	<input type="checkbox"/>
7.9a	<input type="checkbox"/>	7.9b	<input type="checkbox"/>	7.9c	<input type="checkbox"/>	7.9d	<input type="checkbox"/>
7.10a	<input type="checkbox"/>	7.10b	<input type="checkbox"/>	7.10c	<input type="checkbox"/>	7.10d	<input type="checkbox"/>
7.11a	<input type="checkbox"/>	7.11b	<input type="checkbox"/>	7.11c	<input type="checkbox"/>	7.11d	<input type="checkbox"/>
7.12a	<input type="checkbox"/>	7.12b	<input type="checkbox"/>	7.12c	<input type="checkbox"/>	7.12d	<input type="checkbox"/>
7.13a	<input type="checkbox"/>	7.13b	<input type="checkbox"/>	7.13c	<input type="checkbox"/>	7.13d	<input type="checkbox"/>
7.14a	<input type="checkbox"/>	7.14b	<input type="checkbox"/>	7.14c	<input type="checkbox"/>	7.14d	<input type="checkbox"/>

☐ (Check if additional information is provided on Part IV-Supplemental Information.)

8. OPTIONAL INFORMATION ON WASTE MINIMIZATION			
(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)			
A. Type of modification (enter code)	B. Quantity of the chemical in the wastestream prior to treatment/disposal		C. Index
	Current reporting year (lbs/yr)	Prior year (lbs/yr)	Or percent change
<del>1</del>			

Page 5 of 5

(This space for EPA use only.)

Use this section if you need additional space for answers to questions in Parts I and III.  
Number or letter this information sequentially from prior sections (e.g., D,E, F, or 5.54, 5.55).

ADDITIONAL INFORMATION ON FACILITY IDENTIFICATION (Part I - Section 3)									
3.5	SIC Code	3498							
3.7	Dun & Bradstreet Number(s)	001-925-5571							
3.8	EPA Identification Number(s) RCRA I.D. No.)	WAID980738546							
3.9	NPDES Permit Number(s)								
3.10	Name of Receiving Stream(s) or Water Body(s)								

Releases to Land	A. Total Release (lbs/yr)				B. Basis of Estimate (enter code)
	A.1 Reporting Ranges			A.2 Enter Estimate	
	0	1-499	500-999		
5.5___ <input type="text" value="002"/> (enter code)	5.5___ a		X		5.5___ b <input type="text" value="0"/>
5.5___ <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> (enter code)	5.5___ a				5.5___ b <input type="text" value=""/>
5.5___ <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> (enter code)	5.5___ a				5.5___ b <input type="text" value=""/>

		A. Total Transfers (lbs/yr)			B. Basis of Estimate (enter code)	C. Type of Treatment/ Disposal (enter code)	
		A.1 Reporting Ranges					A.2 Enter Estimate
		0	1-499	500-999			
6. ___ Discharge to POTW		6. ___ a		X		6. ___ b <input type="text" value="0"/>	
6. ___ Other off-site location (Enter block number from Part II, Section 2.)	<input type="text" value="1"/>	6. ___ a		X		6. ___ b <input type="text" value="0"/>	6. ___ c. <input type="text" value="M72"/>
6. ___ Other off-site location (Enter block number from Part II, Section 2.)	<input type="text" value=""/>	6. ___ a				6. ___ b <input type="text" value=""/>	6. ___ c. <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>

A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data? Yes No
7.__a <input type="text" value="5"/>	7.__b <input type="text" value="M"/> <input type="text" value="7"/> <input type="text" value="2"/>	7.__c <input type="text" value="3"/>	7.__d <input checked="" type="checkbox"/>	7.__e <input type="text" value="0"/> %	7.__f <input type="checkbox"/> <input checked="" type="checkbox"/>
7.__a <input type="text"/>	7.__b <input type="text"/> <input type="text"/> <input type="text"/>	7.__c <input type="text"/>	7.__d <input type="checkbox"/>	7.__e %	7.__f <input type="checkbox"/> <input type="checkbox"/>
7.__a <input type="text"/>	7.__b <input type="text"/> <input type="text"/> <input type="text"/>	7.__c <input type="text"/>	7.__d <input type="checkbox"/>	7.__e %	7.__f <input type="checkbox"/> <input type="checkbox"/>
7.__a <input type="text"/>	7.__b <input type="text"/> <input type="text"/> <input type="text"/>	7.__c <input type="text"/>	7.__d <input type="checkbox"/>	7.__e %	7.__f <input type="checkbox"/> <input type="checkbox"/>
7.__a <input type="text"/>	7.__b <input type="text"/> <input type="text"/> <input type="text"/>	7.__c <input type="text"/>	7.__d <input type="checkbox"/>	7.__e %	7.__f <input type="checkbox"/> <input type="checkbox"/>



(This space for EPA use only.)

# EPA FORM **R**

## PART III. CHEMICAL SPECIFIC INFORMATION

**1. CHEMICAL IDENTITY**

- 1.1 ☐ Trade Secret (Provide a generic name in 1.4 below. Attach substantiation form to this submission.)
- 1.2 CAS # 007440-47-3 (Use leading zeros if CAS number does not fill space provided.)
- 1.3 Chemical or Chemical Category Name  
Chromium
- 1.4 Generic Chemical Name (Complete only if 1.1 is checked.)

**MIXTURE COMPONENT IDENTITY** (Do not complete this section if you have completed Section 1.)

2. Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e.g., numbers, letters, spaces, punctuation)).

**3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY** (Check all that apply.)

- 3.1 **Manufacture:** a. ☐ Produce b. ☒ Import c. ☐ For on-site use/processing  
d. ☐ For sale/distribution e. ☐ As a byproduct f. ☐ As an impurity
- 3.2 **Process:** a. ☐ As a reactant b. ☐ As a formulation component c. ☐ As an article component  
d. ☒ Repackaging only
- 3.3 **Otherwise Used:** a. ☐ As a chemical processing aid b. ☐ As a manufacturing aid c. ☐ Ancillary or other use

**4. MAXIMUM AMOUNT OF THE CHEMICAL ON SITE AT ANY TIME DURING THE CALENDAR YEAR**06 (enter code)**5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT**

You may report releases of less than 1,000 lbs. by checking ranges under A.1.		A. Total Release (lbs/yr)			B. Basis of Estimate (enter code)	
		A.1 Reporting Ranges				
		0	1-499	500-999		
5.1 Fugitive or non-point air emissions	5.1a		<input checked="" type="checkbox"/>		5.1b	<input type="checkbox"/>
5.2 Stack or point air emissions	5.2a	<input checked="" type="checkbox"/>			5.2b	<input type="checkbox"/>
5.3 Discharges to water (Enter letter code from Part I Section 3.10 for streams(s).)	5.3.1 <input checked="" type="checkbox"/> NA	5.3.1a			5.3.1b	<input type="checkbox"/>
	5.3.2 <input checked="" type="checkbox"/> NA	5.3.2a			5.3.2b	<input type="checkbox"/>
	5.3.3 <input checked="" type="checkbox"/> NA	5.3.3a			5.3.3b	<input type="checkbox"/>
5.4 Underground Injection	5.4a	<input checked="" type="checkbox"/>			5.4b	<input type="checkbox"/>
5.5 Releases to land	5.5.1 <u>D02</u> (enter code)	5.5.1a	<input checked="" type="checkbox"/>		5.5.1b	<input type="checkbox"/>
	5.5.2 <input type="checkbox"/> <input type="checkbox"/> (enter code)	5.5.2a			5.5.2b	<input type="checkbox"/>
	5.5.3 <input type="checkbox"/> <input type="checkbox"/> (enter code)	5.5.3a			5.5.3b	<input type="checkbox"/>

C. % From Stormwater

5.3.1c N/A

5.3.2c N/A

5.3.3c N/A

☐ (Check if additional information is provided on Part IV-Supplemental Information.)

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS						
You may report transfers of less than 1,000 lbs. by checking ranges under A.1.		A. Total Transfers (lbs/yr)			B. Basis of Estimate (enter code)	C. Type of Treatment/ Disposal (enter code)
		A.1 Reporting Ranges		A.2 Enter Estimate		
		0	1-499	500-999		
6.1	Discharge to POTW		X		6.1b	0
6.2	Other off-site location (Enter block number from Part II, Section 2.)	1	X		6.2b	0
6.3	Other off-site location (Enter block number from Part II, Section 2.)				6.3b	
6.4	Other off-site location (Enter block number from Part II, Section 2.)				6.4b	
<input type="checkbox"/> (Check if additional information is provided on Part IV-Supplemental Information)						

7. WASTE TREATMENT METHODS AND EFFICIENCY												
A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?	Yes No						
7.1a	S	7.1b	M 7 2	7.1c	3	7.1d	X	7.1e	0 %	7.1f		X
7.2a		7.2b		7.2c		7.2d		7.2e	%	7.2f		
7.3a		7.3b		7.3c		7.3d		7.3e	%	7.3f		
7.4a		7.4b		7.4c		7.4d		7.4e	%	7.4f		
7.5a		7.5b		7.5c		7.5d		7.5e	%	7.5f		
7.6a		7.6b		7.6c		7.6d		7.6e	%	7.6f		
7.7a		7.7b		7.7c		7.7d		7.7e	%	7.7f		
7.8a		7.8b		7.8c		7.8d		7.8e	%	7.8f		
7.9a		7.9b		7.9c		7.9d		7.9e	%	7.9f		
7.10a		7.10b		7.10c		7.10d		7.10e	%	7.10f		
7.11a		7.11b		7.11c		7.11d		7.11e	%	7.11f		
7.12a		7.12b		7.12c		7.12d		7.12e	%	7.12f		
7.13a		7.13b		7.13c		7.13d		7.13e	%	7.13f		
7.14a		7.14b		7.14c		7.14d		7.14e	%	7.14f		
<input type="checkbox"/> (Check if additional information is provided on Part IV-Supplemental Information.)												

8. OPTIONAL INFORMATION ON WASTE MINIMIZATION				
(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)				
A. Type of modification (enter code)	B. Quantity of the chemical in the wastestream prior to treatment/disposal		C. Index	D. Reason for action (enter code)
	Current reporting year (lbs/yr)	Prior year (lbs/yr)	Or percent change	
			%	

Page 5 of 5

(This space for EPA use only.)

Use this section if you need additional space for answers to questions in Parts I and III. Number or letter this information sequentially from prior sections (e.g., D.E. F. or 5.54, 5.55).

ADDITIONAL INFORMATION ON FACILITY IDENTIFICATION (Part I - Section 3)							
3.5	SIC Code						
	3   4   9   8						
3.7	Dun & Bradstreet Number(s)						
	0   0   -   9   2   5   -   5   5   7   1			-		-	
3.8	EPA Identification Number(s) RCRA I.D. No.)						
	W   A   D   9   8   0   7   3   8   5   4   6						
3.9	NPDES Permit Number(s)						
3.10	Name of Receiving Stream(s) or Water Body(s)						

ADDITIONAL INFORMATION ON RELEASES TO LAND ( Part III - Section 5.5)						
Releases to Land	A. Total Release (lbs/yr)				B. Basis of Estimate (enter code)	
	A.1 Reporting Ranges			A.2 Enter Estimate		
	0	1-499	500-999			
5.5____ <input type="text" value="D"/> <input type="text" value="0"/> <input type="text" value="2"/> (enter code)	5.5____a		X		5.5____b <input type="text" value="0"/>	
5.5____ <input type="text"/> <input type="text"/> <input type="text"/> (enter code)	5.5____a				5.5____b <input type="text"/>	
5.5____ <input type="text"/> <input type="text"/> <input type="text"/> (enter code)	5.5____a				5.5____b <input type="text"/>	

ADDITIONAL INFORMATION ON OFF-SITE TRANSFER ( Part III - Section 6)									
		A. Total Transfers (lbs/yr)				B. Basis of Estimate (enter code)	C. Type of Treatment/ Disposal (enter code)		
		A.1 Reporting Ranges			A.2 Enter Estimate				
		0	1-499	500-999					
6. ____	Discharge to POTW	6. ____a		X		6. ____b	0		
6. ____	Other off-site location (Enter block number from Part II, Section 2.)	6. ____a		X		6. ____b	0	6. ____c. M 7 2	
6. ____	Other off-site location (Enter block number from Part II, Section 2.)	6. ____a				6. ____b		6. ____c.	

ADDITIONAL INFORMATION ON WASTE TREATMENT (Part III - Section 7)														
A. General Wastestream (enter code)		B. Treatment Method (enter code)			C. Range of Influent Concentration (enter code)		D. Sequential Treatment? (check if applicable)		E. Treatment Efficiency Estimate		F. Based on Operating Data? Yes No			
7.___a	<input type="text" value="S"/>	7.___b	<input type="text" value="M"/>	<input type="text" value="7"/>	<input type="text" value="2"/>	7.___c	<input type="text" value="3"/>	7.___d	<input type="text" value="X"/>	7.___e	0 %	7.___f	<input type="text"/>	<input checked="" type="text" value="X"/>
7.___a	<input type="text"/>	7.___b	<input type="text"/>	<input type="text"/>	<input type="text"/>	7.___c	<input type="text"/>	7.___d	<input type="text"/>	7.___e	%	7.___f	<input type="text"/>	<input type="text"/>
7.___a	<input type="text"/>	7.___b	<input type="text"/>	<input type="text"/>	<input type="text"/>	7.___c	<input type="text"/>	7.___d	<input type="text"/>	7.___e	%	7.___f	<input type="text"/>	<input type="text"/>
7.___a	<input type="text"/>	7.___b	<input type="text"/>	<input type="text"/>	<input type="text"/>	7.___c	<input type="text"/>	7.___d	<input type="text"/>	7.___e	%	7.___f	<input type="text"/>	<input type="text"/>
7.___a	<input type="text"/>	7.___b	<input type="text"/>	<input type="text"/>	<input type="text"/>	7.___c	<input type="text"/>	7.___d	<input type="text"/>	7.___e	%	7.___f	<input type="text"/>	<input type="text"/>

6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS						
You may report transfers of less than 1,000 lbs. by checking ranges under A.1.		A. Total Transfers (lbs/yr)			B. Basis of Estimate (enter code)	C. Type of Treatment/ Disposal (enter code)
		A.1 Reporting Ranges		A.2 Enter Estimate		
		0	1-499	500-999		
6.1	Discharge to POTW		X		6.1b	0
6.2	Other off-site location (Enter block number from Part II, Section 2.)	1	X		6.2b	0
6.3	Other off-site location (Enter block number from Part II, Section 2.)				6.3b	
6.4	Other off-site location (Enter block number from Part II, Section 2.)				6.4b	
<input type="checkbox"/> (Check if additional information is provided on Part IV-Supplemental Information)						

7. WASTE TREATMENT METHODS AND EFFICIENCY							
A. General Wastestream (enter code)	B. Treatment Method (enter code)	C. Range of Influent Concentration (enter code)	D. Sequential Treatment? (check if applicable)	E. Treatment Efficiency Estimate	F. Based on Operating Data?		
					Yes	No	
7.1a	S	7.1b	M 7 2	7.1c	3	7.1d	X
7.2a		7.2b		7.2c		7.2d	
7.3a		7.3b		7.3c		7.3d	
7.4a		7.4b		7.4c		7.4d	
7.5a		7.5b		7.5c		7.5d	
7.6a		7.6b		7.6c		7.6d	
7.7a		7.7b		7.7c		7.7d	
7.8a		7.8b		7.8c		7.8d	
7.9a		7.9b		7.9c		7.9d	
7.10a		7.10b		7.10c		7.10d	
7.11a		7.11b		7.11c		7.11d	
7.12a		7.12b		7.12c		7.12d	
7.13a		7.13b		7.13c		7.13d	
7.14a		7.14b		7.14c		7.14d	
<input type="checkbox"/> (Check if additional information is provided on Part IV-Supplemental Information.)							

8. OPTIONAL INFORMATION ON WASTE MINIMIZATION			
(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)			
A. Type of modification (enter code)	B. Quantity of the chemical in the wastestream prior to treatment/disposal	C. Index	D. Reason for action (enter code)
	Current reporting year (lbs/yr) _____ Prior year (lbs/yr) _____ Or percent change _____ %		

(This space for EPA use only.)

# EPA FORM **R**

## PART III. CHEMICAL SPECIFIC INFORMATION

**1. CHEMICAL IDENTITY**1.1 ☐ Trade Secret (Provide a generic name in 1.4 below. Attach substantiation form to this submission.)1.2 CAS #  -  -  (Use leading zeros if CAS number does not fill space provided.)

1.3 Chemical or Chemical Category Name

Copper

1.4 Generic Chemical Name (Complete only if 1.1 is checked.)

**MIXTURE COMPONENT IDENTITY** (Do not complete this section if you have completed Section 1.)

2. Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e.g., numbers, letters, spaces, punctuation)).

**3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY** (Check all that apply.)3.1 **Manufacture:** a. ☐ Produce b. ☐ Import c. ☐ For on-site use/processing  
d. ☐ For sale/distribution e. ☐ As a byproduct f. ☐ As an impurity3.2 **Process:** a. ☐ As a reactant b. ☐ As a formulation component c. ☐ As an article component  
d. ☐ Repackaging only3.3 **Otherwise Used:** a. ☐ As a chemical processing aid b. ☐ As a manufacturing aid c. ☐ Ancillary or other use**4. MAXIMUM AMOUNT OF THE CHEMICAL ON SITE AT ANY TIME DURING THE CALENDAR YEAR** (enter code)**5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT**

You may report releases of less than 1,000 lbs. by checking ranges under A.1.		A. Total Release (lbs/yr)			B. Basis of Estimate (enter code)		
		A.1 Reporting Ranges					A.2 Enter Estimate
		0	1-499	500-999			
5.1 Fugitive or non-point air emissions	5.1a					5.1b <input type="checkbox"/>	
5.2 Stack or point air emissions	5.2a					5.2b <input type="checkbox"/>	
5.3 Discharges to water (Enter letter code from Part I Section 3.10 for streams(s).)	5.3.1 <input type="checkbox"/>	5.3.1a				5.3.1b <input type="checkbox"/>	C. % From Stormwater 5.3.1c
	5.3.2 <input type="checkbox"/>	5.3.2a				5.3.2b <input type="checkbox"/>	5.3.2c
	5.3.3 <input type="checkbox"/>	5.3.3a				5.3.3b <input type="checkbox"/>	5.3.3c
5.4 Underground injection	5.4a					5.4b <input type="checkbox"/>	
5.5 Releases to land	5.5.1 <input type="text" value="000"/> (enter or de)	5.5.1a				5.5.1b <input type="checkbox"/>	
	5.5.2 <input type="text" value="000"/> (enter or de)	5.5.2a				5.5.2b <input type="checkbox"/>	
	5.5.3 <input type="text" value="000"/> (enter code)	5.5.3a				5.5.3b <input type="checkbox"/>	

☐ (Check if additional information is provided on Part IV--Supplemental Information.)

(This space for EPA use only.)

# EPA FORM **R**

## PART II. CHEMICAL SPECIFIC INFORMATION

**1. CHEMICAL IDENTITY**

- 1.1 ☐ Trade Secret (Provide a generic name in 1.4 below. Attach substantiation form to this submission.)
- 1.2 CAS #  -  -  (Use leading zeros if CAS number does not fill space provided.)
- 1.3 Chemical or Chemical Category Name  
Nickel
- 1.4 Generic Chemical Name (Complete only if 1.1 is checked.)

**MIXTURE COMPONENT IDENTITY (Do not complete this section if you have completed Section 1.)**

2. Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e.g., numbers, letters, spaces, punctuation)).

**3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)**

- 3.1 **Manufacture:** a. ☐ Produce b. ☐ Import c. ☐ For on-site use/processing  
d. ☐ For sale/distribution e. ☐ As a byproduct f. ☐ As an impurity
- 3.2 **Process:** a. ☐ As a reactant b. ☐ As a formulation component c. ☐ As an article component  
d. ☐ Repackaging only
- 3.3 **Otherwise Used:** a. ☐ As a chemical processing aid b. ☐ As a manufacturing aid c. ☐ Ancillary or other use

**4. MAXIMUM AMOUNT OF THE CHEMICAL ON SITE AT ANY TIME DURING THE CALENDAR YEAR**05 (enter code)**5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT**

You may report releases of less than 1,000 lbs. by checking ranges under A.1.		A. Total Release (lbs/yr)			B. Basis of Estimate (enter code)		
		A.1 Reporting Ranges					A.2 Enter Estimate
		0	1-499	500-999			
5.1 Fugitive or non-point air emissions	5.1a					5.1b <input type="checkbox"/>	
5.2 Stack or point air emissions	5.2a					5.2b <input type="checkbox"/>	
5.3 Discharges to water (Enter letter code from Part I Section 3.10 for streams(s).)	5.3.1 <input type="checkbox"/>	5.3.1a				5.3.1b <input type="checkbox"/>	C. % From Stormwater 5.3.1c
	5.3.2 <input type="checkbox"/>	5.3.2a				5.3.2b <input type="checkbox"/>	5.3.2c
	5.3.3 <input type="checkbox"/>	5.3.3a				5.3.3b <input type="checkbox"/>	5.3.3c
5.4 Underground Injection	5.4a					5.4b <input type="checkbox"/>	
5.5 Releases to land	5.5.1 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> (enter code)	5.5.1a				5.5.1b <input type="checkbox"/>	
	5.5.2 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> (enter code)	5.5.2a				5.5.2b <input type="checkbox"/>	
	5.5.3 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> (enter code)	5.5.3a				5.5.3b <input type="checkbox"/>	

☐ (Check if additional information is provided on Part IV-Supplemental Information.)

(This space for EPA use only.)

# EPA FORM **R**

## PART III. CHEMICAL SPECIFIC INFORMATION

**1. CHEMICAL IDENTITY**

- 1.1 ☐ Trade Secret (Provide a generic name in 1.4 below. Attach substantiation form to this submission.)
- 1.2 CAS #  (Use leading zeros if CAS number does not fill space provided.)
- 1.3 Chemical or Chemical Category Name  
*Manganese*
- 1.4 Generic Chemical Name (Complete only if 1.1 is checked.)

**MIXTURE COMPONENT IDENTITY (Do not complete this section if you have completed Section 1.)**

2. Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e.g., numbers, letters, spaces, punctuation)).

**3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)**

- 3.1 **Manufacture:** a. ☐ Produce b. ☐ Import c. ☐ For on-site use/processing  
d. ☐ For sale/distribution e. ☐ As a byproduct f. ☐ As an impurity
- 3.2 **Process:** a. ☐ As a reactant b. ☐ As a formulation component c. ☐ As an article component  
d. ☐ Repackaging only
- 3.3 **Otherwise Used:** a. ☐ As a chemical processing aid b. ☐ As a manufacturing aid c. ☐ Ancillary or other use

**4. MAXIMUM AMOUNT OF THE CHEMICAL ON SITE AT ANY TIME DURING THE CALENDAR YEAR** (enter code)**5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT**

You may report releases of less than 1,000 lbs. by checking ranges under A.1.		A. Total Release (lbs/yr)			B. Basis of Estimate (enter code)		
		A.1 Reporting Ranges					A.2 Enter Estimate
		0	1-499	500-999			
5.1 Fugitive or non-point air emissions	5.1a					5.1b <input type="checkbox"/>	
5.2 Stack or point air emissions	5.2a					5.2b <input type="checkbox"/>	
5.3 Discharges to water (Enter letter code from Part I Section 3.10 for streams(s).)	5.3.1 <input type="checkbox"/>	5.3.1a				5.3.1b <input type="checkbox"/>	C. % From Stormwater 5.3.1c
	5.3.2 <input type="checkbox"/>	5.3.2a				5.3.2b <input type="checkbox"/>	5.3.2c
	5.3.3 <input type="checkbox"/>	5.3.3a				5.3.3b <input type="checkbox"/>	5.3.3c
5.4 Underground Injection	5.4a					5.4b <input type="checkbox"/>	
5.5 Releases to land	5.5.1 <input type="text" value="000"/> (enter code)	5.5.1a				5.5.1b <input type="checkbox"/>	
	5.5.2 <input type="text" value="000"/> (enter code)	5.5.2a				5.5.2b <input type="checkbox"/>	
	5.5.3 <input type="text" value="000"/> (enter code)	5.5.3a				5.5.3b <input type="checkbox"/>	

☐ (Check if additional information is provided on Part IV-Supplemental Information.)